

## CLAIMS

### What is claimed is:

1. A semiconductor device comprising:  
at least one layer of boro-phospho silicate glass; and  
at least one layer of germanium boro-phospho silicate glass having at least a portion thereof  
contacting at least a portion of the at least one layer of boro-phospho silicate glass.
2. A semiconductor device comprising:  
a plurality of layers of boro-phospho silicate glass; and  
a plurality of layers of germanium boro-phospho silicate glass, at least a portion of at least one  
layer of said plurality of layers of germanium boro-phospho silicate glass contacting at  
least a portion of at least one layer of said plurality of layers of boro-phospho silicate  
glass.
3. A semiconductor device comprising:  
a plurality of layers of boro-phospho silicate glass; and  
a plurality of layers of germanium boro-phospho silicate glass, each layer of germanium boro-  
phospho silicate glass having at least a portion thereof contacting at least a portion of at  
least one layer of said plurality of layers of boro-phospho silicate glass.
4. A semiconductor memory device comprising:  
at least one layer of boro-phospho silicate glass; and  
at least one layer of germanium boro-phospho silicate glass having at least a portion thereof  
contacting at least a portion of the at least one layer of boro-phospho silicate glass.

5. A semiconductor memory device comprising:  
a plurality of layers of boro-phospho silicate glass; and  
a plurality of layers of germanium boro-phospho silicate glass, at least a portion of at least one layer of said plurality of layers of germanium boro-phospho silicate glass contacting at least a portion of at least one layer of said plurality of layers of boro-phospho silicate glass.

6. A semiconductor memory device comprising:  
a plurality of layers of boro-phospho silicate glass; and  
a plurality of layers of germanium boro-phospho silicate glass, each layer of germanium boro-phospho silicate glass having at least a portion thereof contacting at least a portion of at least one layer of said plurality of layers of boro-phospho silicate glass.

7. A semiconductor memory device comprising:  
at least one capacitor cell having a portion thereof formed by at least one layer of boro-phospho silicate glass and at least one layer of germanium boro-phospho silicate glass having at least a portion thereof contacting at least a portion of the at least one layer of boro-phospho silicate glass.

8. A semiconductor memory device comprising:  
at least one capacitor cell having a portion thereof formed by a plurality of layers of boro-phospho silicate glass and a plurality of layers of germanium boro-phospho silicate glass, at least a portion of at least one layer of said plurality of layers of germanium boro-phospho silicate glass contacting at least a portion of at least one layer of said plurality of layers of boro-phospho silicate glass.

9. A semiconductor memory device comprising:  
at least one capacitor cell having a portion thereof formed by a plurality of layers of boro-phospho silicate glass and a plurality of layers of germanium boro-phospho silicate glass, each layer of germanium boro-phospho silicate glass having at least a portion thereof contacting at least a portion of at least one layer of said plurality of layers of boro-phospho silicate glass.

10. The memory device of claim 9, further comprising:  
at least one dielectric layer; and  
a conductive layer over the at least one dielectric layer.

11. The memory device of claim 10, wherein the at least one dielectric layer comprises one of  $\text{Si}_3\text{N}_4$ ,  $\text{Ta}_2\text{O}_5$ , and BST.

12. The memory device of claim 10, wherein the conductive layer comprises Si-Ge.

13. The memory device of claim 9, further comprising:  
at least one dielectric layer covering at least portions of the plurality of layers of boro-phospho silicate glass and the plurality of layers of germanium boro-phospho silicate glass; and  
a conductive layer covering at least a portion of the at least one dielectric layer.